

Title (en)

Laser radar system for providing chirped electromagnetic radiation

Title (de)

Laserradarsystem zur Bereitstellung von gechirpter elektromagnetischer Strahlung

Title (fr)

Système de radar laser pour la fourniture d'une radiation électromagnétique grésillée

Publication

EP 2386245 A1 20111116 (EN)

Application

EP 11174528 A 20060214

Priority

- EP 06734976 A 20060214
- US 65198905 P 20050214

Abstract (en)

A laser radar system comprising: a first coherent laser radar section including: a laser source that generates a first laser beam, an interferometer that splits the first laser beam into a first target beam and a first local oscillator beam, and generates a first combined target beam from a first reflected portion of the first target beam and the first local oscillator beam; a second coherent laser radar section including: a laser source that generates a second laser beam, an interferometer that splits the second laser beam into a second target beam, incident on the target at the same location as the first target beam, and a second local oscillator beam, and generates a second combined target beam from a second reflected portion of the second target beam and the second local oscillator beam; and a processor that determines a range and a range rate of the target unambiguously from the first combined target beam and the second combined target beam.

IPC 8 full level

A61B 5/02 (2006.01); **A61B 5/11** (2006.01); **G01S 7/4911** (2020.01); **G01S 17/32** (2020.01); **G01S 17/34** (2020.01)

CPC (source: EP US)

G01C 3/08 (2013.01 - EP US); **G01S 7/4911** (2013.01 - EP US); **G01S 17/06** (2013.01 - US); **G01S 17/32** (2013.01 - EP US); **G01S 17/34** (2020.01 - EP US); **G01S 7/4814** (2013.01 - EP US); **G01S 7/4818** (2013.01 - EP US)

Citation (applicant)

- US 65198905 P 20050214
- US 5114226 A 19920519 - GOODWIN FRANK E [US], et al
- US 4697888 A 19871006 - SCHMADEL JR DONALD C [US], et al
- "NASA Langley Contract No. NAS1-18890", May 1991, SPRINGFIELD

Citation (search report)

- [Y] US 4830486 A 19890516 - GOODWIN FRANK E [US]
- [Y] US 2004257581 A1 20041223 - HOGAN JOSH N [US]
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- [A] US 6062216 A 20000516 - CORN STEPHEN B [US]
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DOCDB simple family (publication)

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DOCDB simple family (application)

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